Abstracts

Equivalent Circuit Models for Computer Aided Design of Microstrip Rectangular Structures

F. Giannini, G. Bartolucci and M. Ruggieri. "Equivalent Circuit Models for Computer Aided Design of Microstrip Rectangular Structures." 1992 Transactions on Microwave Theory and Techniques 40.2 (Feb. 1992 [T-MTT]): 378-388.

A new modeling of microstrip rectangular structures in terms of equivalent circuits is here illustrated overcome many of the drawbacks and limitations of previously proposed approaches and the poor accuracy still introduced most of the presently available models. Through a successful electromagnetic approach, a lumped element modeling interacting and non-interacting step discontinuities have been created and tested. An alternative modeling is also proposed account for shunt connected double and single stubs in cross and tee junction with the main line respectively. The different models have also been tested on the same structure to demonstrate their congruency.

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